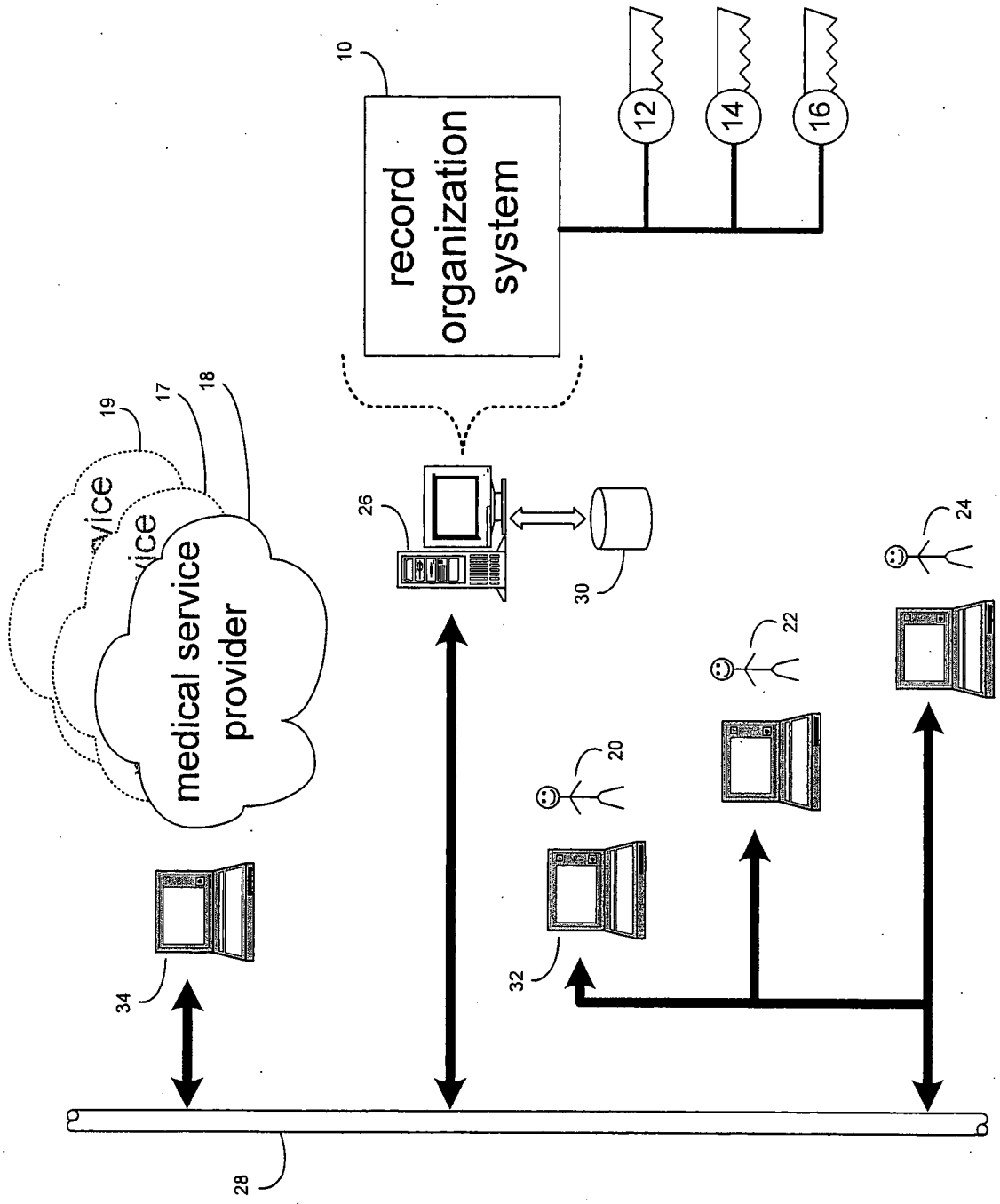

10
record organization system
12
14
16
19
17
18
medical service provider
26
30
24
22
20
32
34
28

Fig. 1

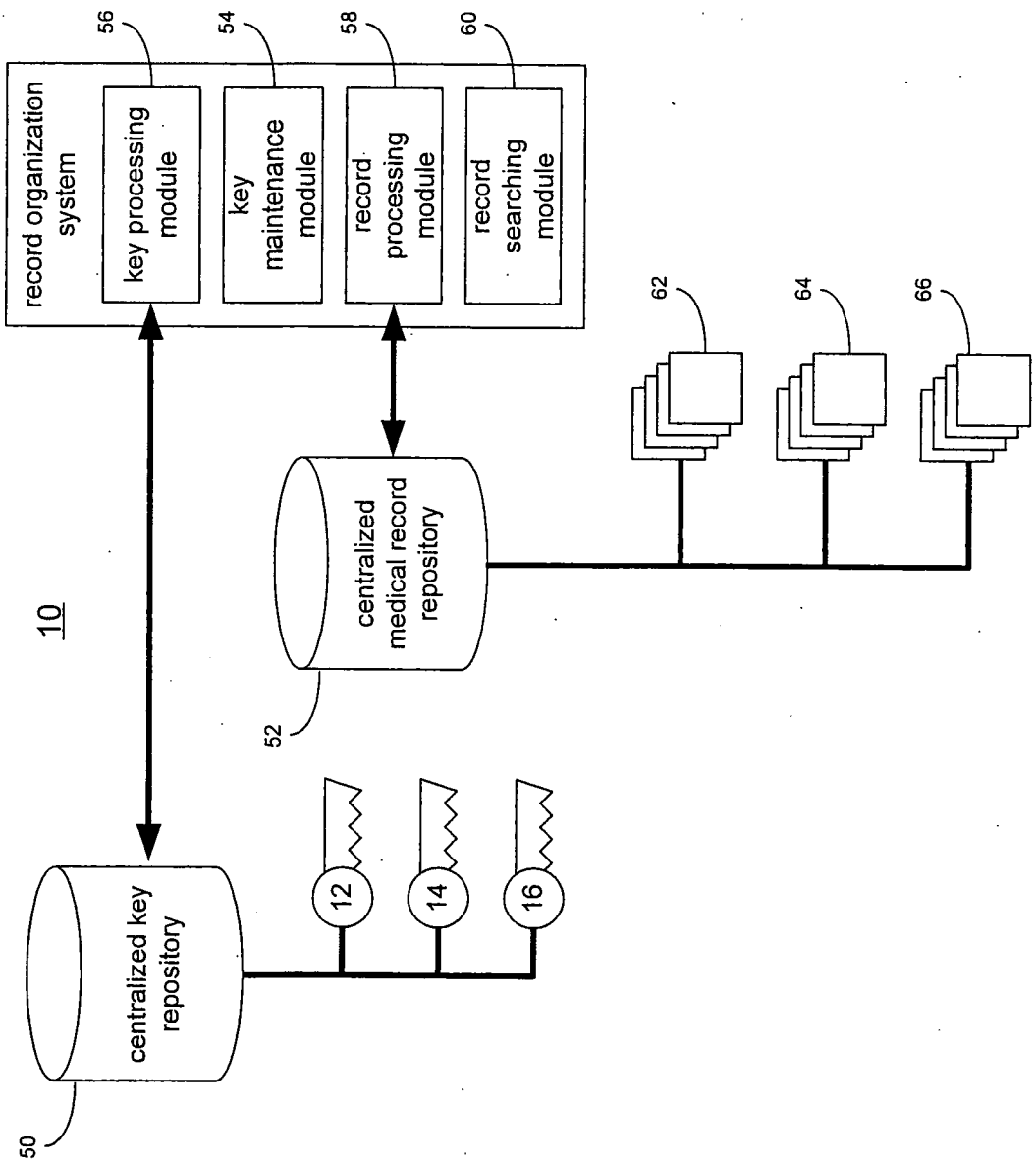

record organization system
key processing module
key maintenance module
record processing module
record searching module
56
54
58
60
62
64
66
centralized medical record repository
52
centralized key repository
50
12
14
16
10

Fig. 2

REPLACEMENT
SHEET

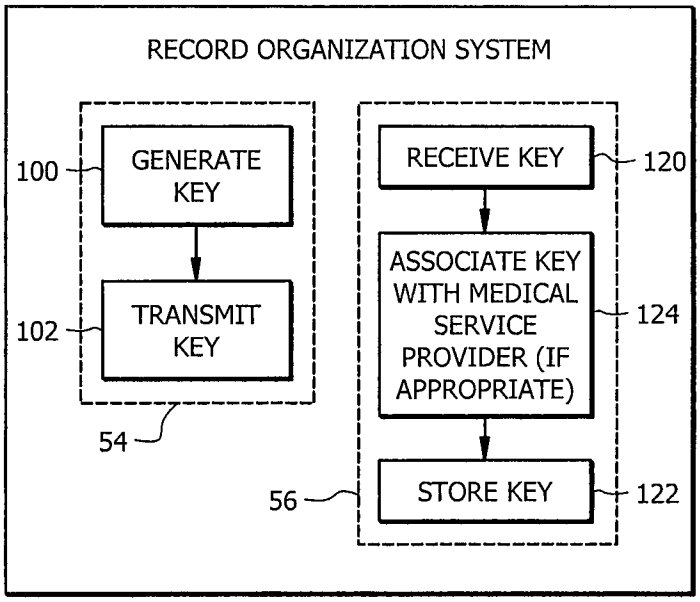



*FIG. 3*

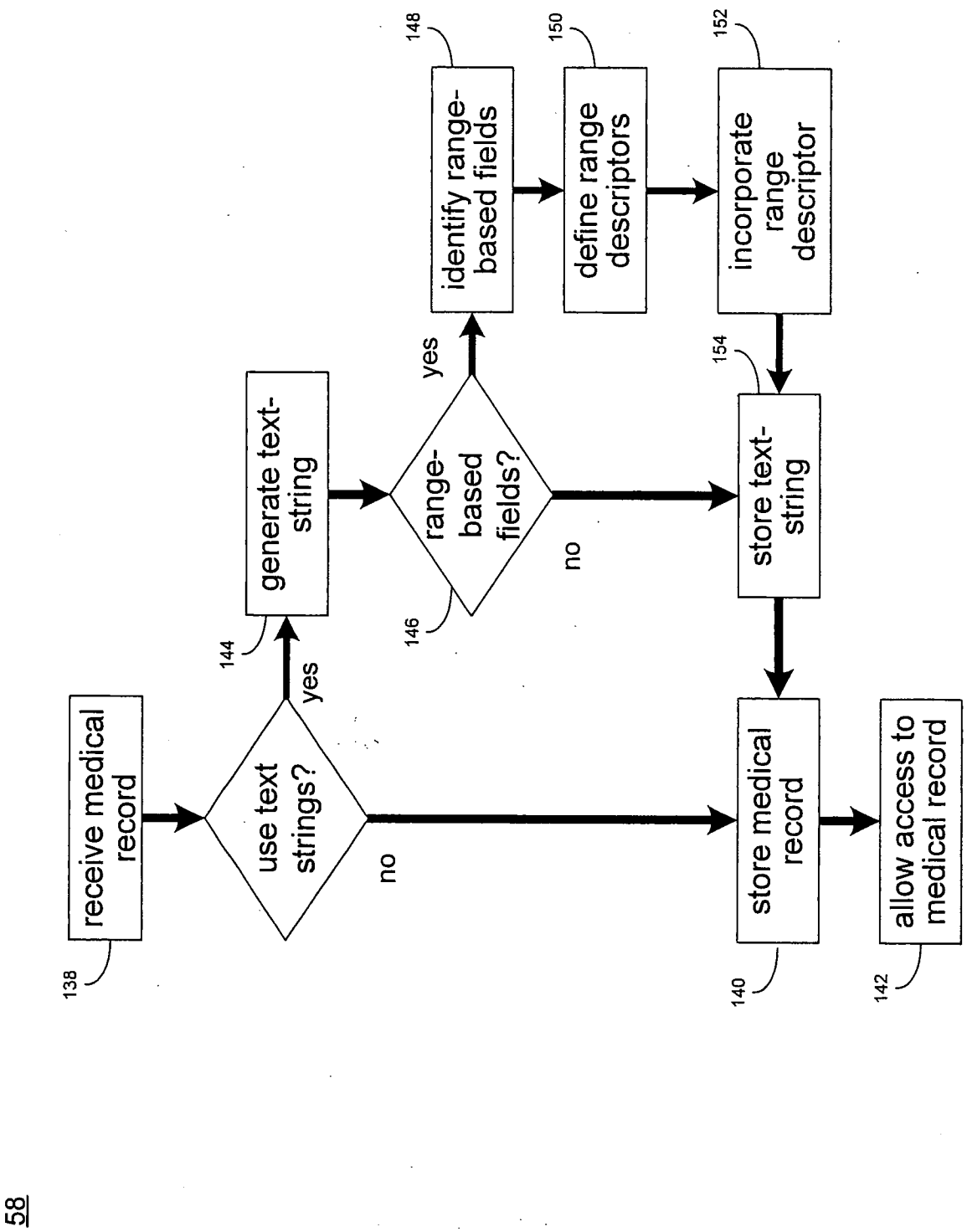

58
receive medical record
138
use text strings?
yes
no
144
generate text-string
range-based fields?
146
yes
no
identify range-based fields
148
define range descriptors
150
incorporate range descriptor
152
store text-string
154
store medical record
140
allow access to medical record
142

Fig. 4

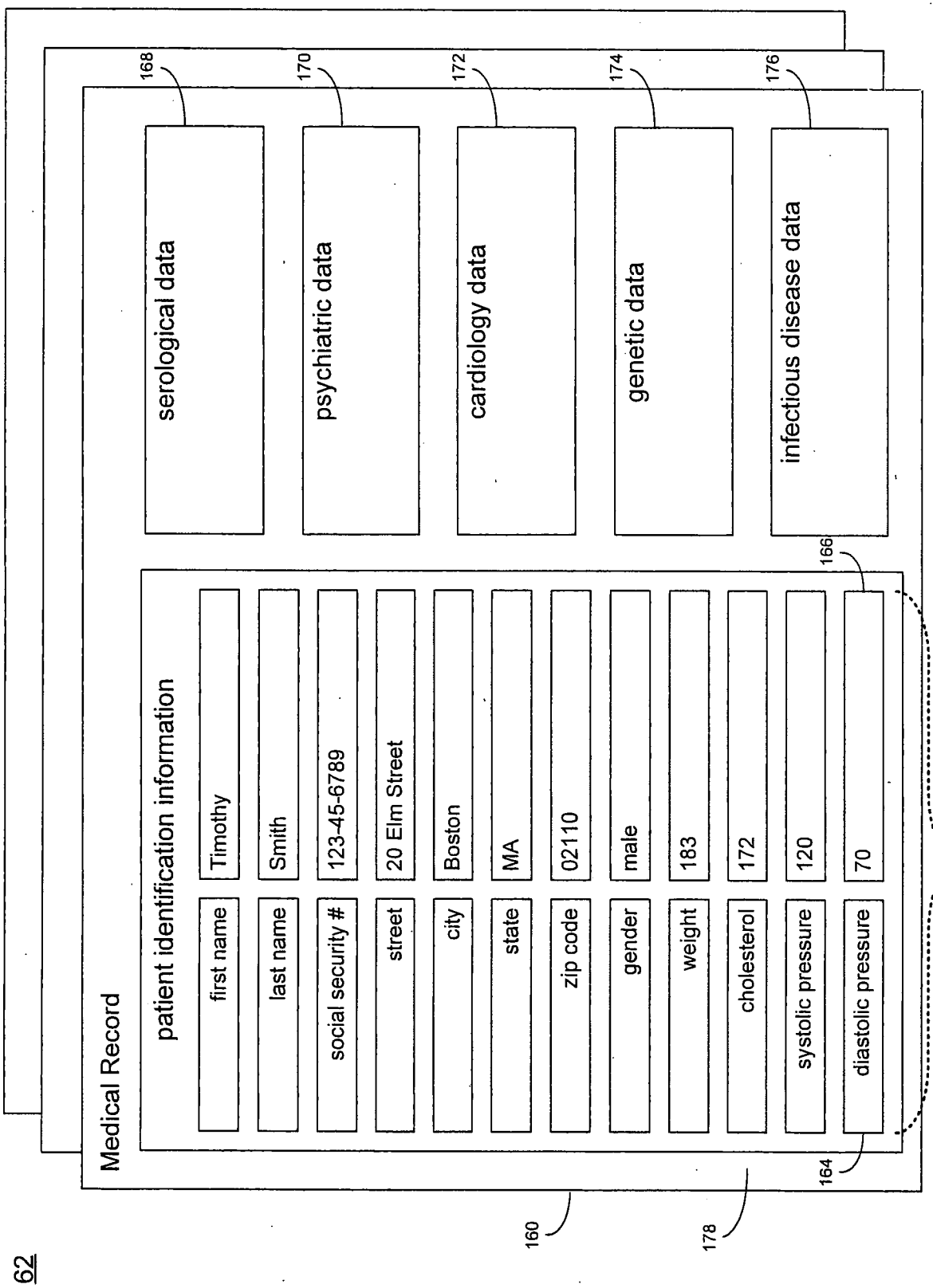

62
Medical Record
patient identification information
first name
Timothy
last name
Smith
social security #
123-45-6789
street
20 Elm Street
city
Boston
state
MA
zip code
02110
gender
male
weight
183
cholesterol
172
systolic pressure
120
diastolic pressure
70
serological data
psychiatric data
cardiology data
genetic data
infectious disease data
160
162
164
166
168
170
172
174
176
178

Fig. 5

REPLACEMENT
SHEET

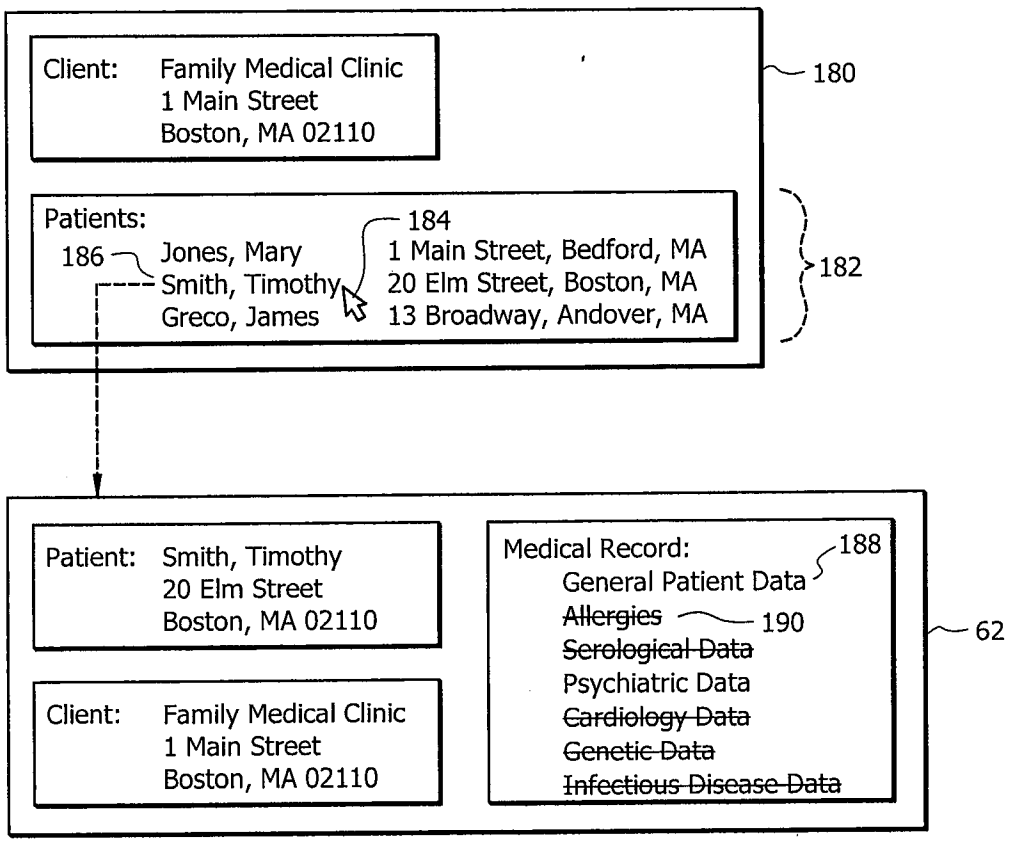



*FIG. 6*

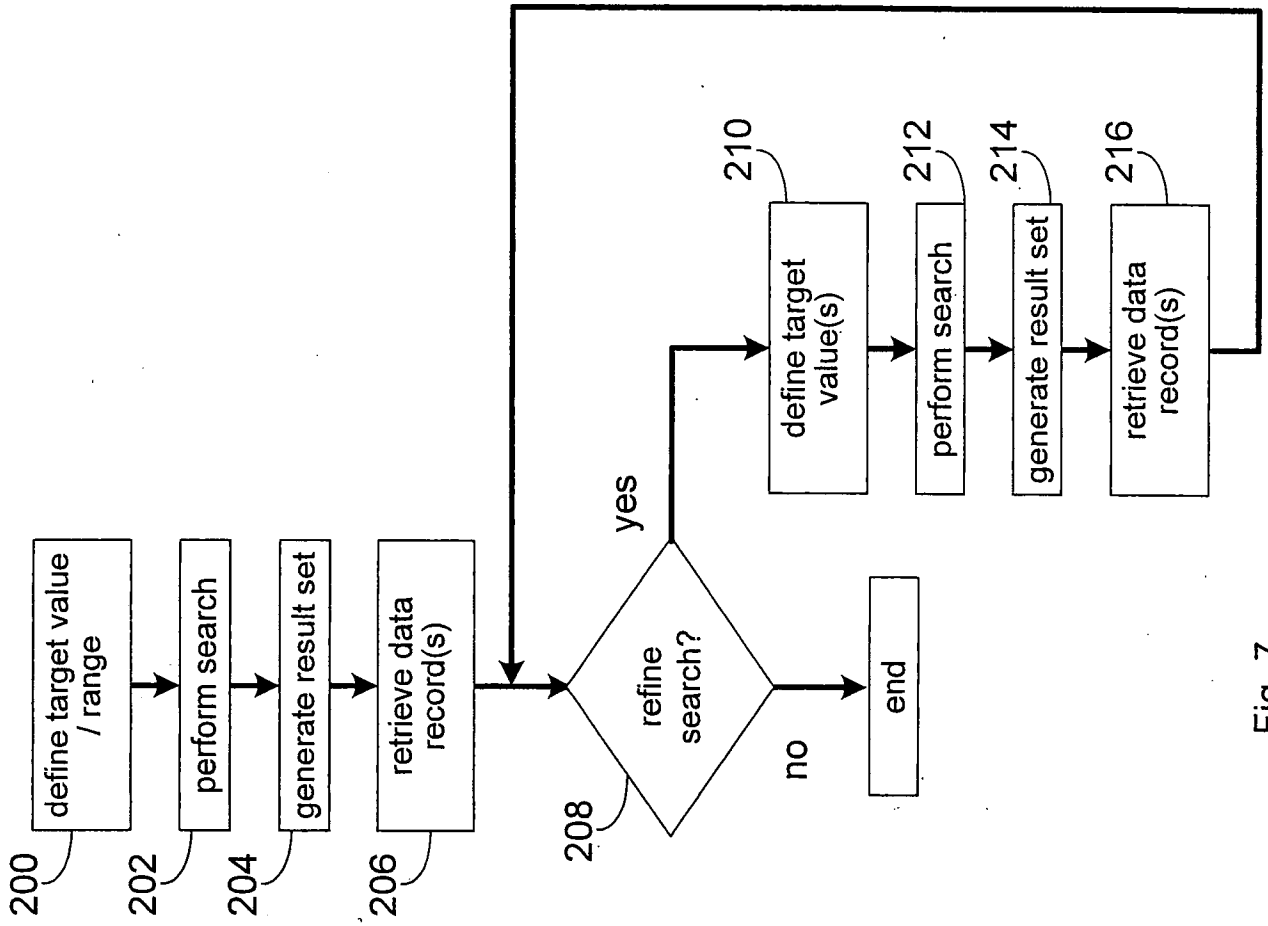

define target value / range
perform search
generate result set
retrieve data record(s)
refine search?
yes
no
end
define target value(s)
perform search
generate result set
retrieve data record(s)
200
202
204
206
208
210
212
214
216

Fig. 7

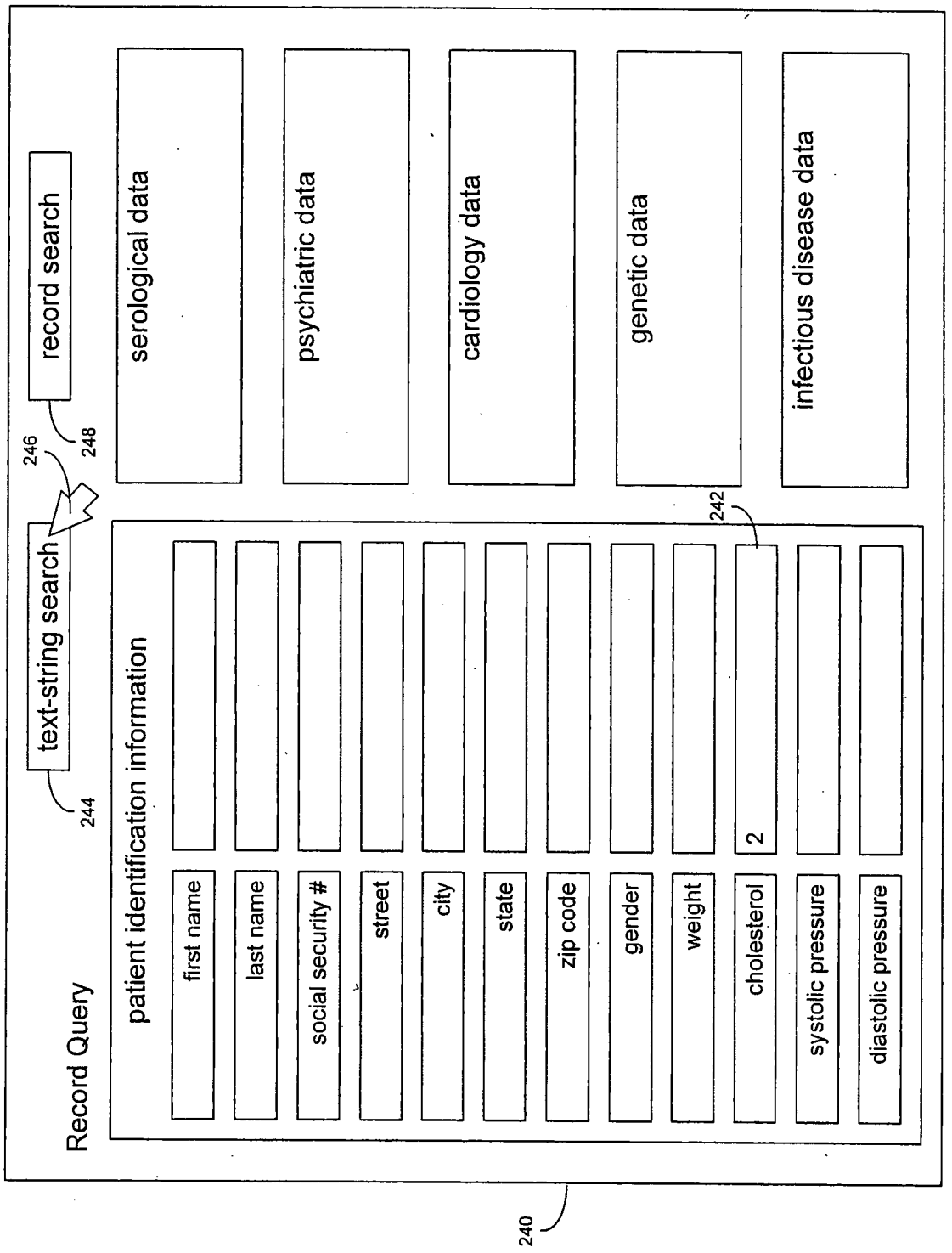

Record Query
text-string search
244
246
248
record search
patient identification information
first name
last name
social security #
street
city
state
zip code
gender
weight
cholesterol
2
242
systolic pressure
diastolic pressure
serological data
psychiatric data
cardiology data
genetic data
infectious disease data
240

Fig. 8